Substitute for form 1449A/PTO

Sheet

PTO/SB/08A (08-03) Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary) of

	Complete if Known	
Application Number	10/643254	
Filing Date	August 18, 2003	
First Named Inventor	KEVIN CRATHER ET. AL.	
Group Art Unit	Unknown	
Examiner Name	Unknown	
Attorney Docket Number	CL1610USNA	

-				U.S. PATE	NT DOCUMENTS	
Examiner Initials *	Cite No.1		cument Number  Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
129		us-I	3,846,529 A	11-05-1974	POTEET, III	1 I I I I
X <del>Z</del>	-	US-	5.028.224 A	07-02-1991	PIEPER et al.	
<u>~</u>		us-	5,429,788 A	07-04-1995	RIBBLE et al.	
	<del> </del>	us-	4,639,423 A	01-27-1987	KAHLERT et al.	
	1-	US-	2,254,237 A	09-02-1941	NASH et al.	
_		US-	3,014,246 A	12-26-1961	COOK et al.	
	1	US-	3,029,466 A	04-17-1962	GUILL	
	<b>†</b>	US -	3,070,835 A	01-01-1963	ALSYS	
1	1	US-	3,207,818 A	09-21-1965	MARSHALL	1
	1	US-	3,316,590 A	05-02-1967	RETTIG	V
		US-	5,609,892 A	03-11-1997	GARCIA et al.	ΙΛ
		US -	3,341,892 A	09-19-1967	MAYNER	
		US-	3,709,641 A	01-09-1973	SAREM	/ \
		US-	4,025,252 A	05-24-1977	HUNKE	1
		US-	4,245,972 A	01-20-1981	ANDERS	
		US ·	4,461,737 A	07-24-1984	voss	1
	1	US -	4,580,967 A	04-08-1986	GUTIERRZ-RUBIO	
	1	US-	4,846,644 A	07-11-1989	LIN	
1		US -	4,850,835 A	07-25-1989	RUDOLPH	1 / -
1/		US-	5,143,673 A	09-01-1992	GRIMMINGER	
V	1	US -	5,215,763 A	06-01-1993	MATTERA	1/
W7	T	US -	5,611,983 A	03-18-1997	MA et al.	

		FOREIG	N PATENT D	OCUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant	
Initials*		CountryCode <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear	Te
W		DD 253 244 A1	01-13-1988	LOTHAR et al.		믜
						<u> </u>
	<del></del>					
	<del>                                     </del>					
<u> </u>	├					
<del></del>			h			
	-		<del>                                     </del>			
<b>—</b>						

Examiner Signature	North	Solfe	Date Considered	6/21/06
	The state of the s			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional), 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspip.">www.uspip.</a> or MPEP 901.04. 'Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 If possible. 'Applicant is to place a check mark here if English transverse Transcriptions.' language Translation is attached.

language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Complete if Known Substitute for form 1449A/PTO 10/643254 Application Number INFORMATION DISCLOSURE August 18, 2003 Filing Date KEVIN CRATHER ET. AL. STATEMENT BY APPLICANT First Named Inventor **Group Art Unit** Unknown (use as many sheets as necessary) Unknown **Examiner Name** Attorney Docket Number | CL1610USNA 2 of Sheet

				U.S. PATE	NT DOCUMENTS	
xaminer Initials *	Cite No.1		cument Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
140		us - I	5,698,237 A	12-16-1997	BACHER et al.	
A		us-	5,895,617 A	04-20-1999	MIZUGUCHI et al.	
#1		us-	5.942,170 A	08-24-1999	PEITZ	
-1		US -	6,143,221 A	11-07-2000	GUROL	
$\dashv$		US -	6,267,575 A	07-31-2001	ROOYAKKERS et al.	X
$\overline{}$		us -	6,379,137 B1	04-30-2002	ECKER	
-1/	-	us-	6,506,807 B1	01-14-2003	YANAGIHARE et al.	
$-\Psi$		us-	6,592,350 B1	07-15-2003	CHSZANIECKI	
119		us-	6,551,643 B1	04-22-2003	BERNATZ et al.	
Y		US-				
		US -				
		US -				
		US-				
		US-				
		US -				
		US-				
		US -				
		US -				
		US-				
		US -		ļ		
		US-				
		US-		<u> </u>		

		FOREIG	N PATENT D	OCUMENTS		]
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant	т.
Initials*	No.1	CountryCode <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear	
			<del> </del>			
L			<del> </del>			
	ļ		<del> </del>			
						$\Box$

Examiner Signature Company Soll Sul	Date Considered	6/21/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of CUSPTO Patent Documents at www.uspio. or MPEP 901.04. \(^3\) Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). \(^7\) For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \(^6\) Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \(^6\) Applicant is to place a check mark here if English Isonusco Tomostation is attached.

Institution of Information is anached.

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by This collection of Information is required by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any including gathering, preparing, and submitting the complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Complete if Known

PTO/SB/08B (08-03)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO		Complete il Known					
		AND DICCI OCUBE	Application Number	10/643254			
		ION DISCLOSURE	Filing Date	August 18, 2003			
STAT	<b>EMEN</b>	IT BY APPLICANT	First Named Inventor	KEVIN CRATHER ET. AL.			
			Group Art Unit				
lus	e as man	y sheets as necessary)	Examiner Name				
Sheet	1	of 1	Attorney Docket Number	CL1610USNA			
		OTHER PRIOR ART I	NON PATENT LITERA	TURE DOCUMENTS			
Examiner Initials * Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issunumber(s), publisher, city and/or country where published.							
180	WILLER DE OLIVEIRA ET AL., Journal of Applied Polymer Science, vol. 6:63-73, 1996, Hydrogels From Polysaccharides I Cellulous Beads for Chromatographic Support						
j		HARRY R. BRANDENBERGER Concentrated Ce	ET AL., Biotechnol. Prog., vo	il. 15:366-372, 1999, Immobilization of Highly minar Jet Breakup Technique			
		MICHAEL ZC. HU ET AL., Biote aerugi	chnot. Prog., vol. 13:60-70, 1 inosa Strain CSU Immobilize	997, Biosorption of Uranium by Pseudomonas d in a Novel Matrix			
		J. TRAMPER, Trends in Biotect	mmobilizing Biocatalyst for Use In Syntheses				
		ULF PRÜBE ET AL., Biotechnology	/ Techniques, vol. 12, no. 3:1 Immobilization Tech	05-108, 1998, The Jet Cutting Method as a New nique			
		DOUGLAS. B. SEIFERT ET AL., I	Biotehnol. Prog., vol. 13:562- Alginate Beads for Cell Ima	568, 1997, Production of Small, Monodispersed mobilization			
49	,	S. F. D'SOUZA, Indian J. Microbi	il., vol. 29(2):83-117, 1989, in	nmobilized Cells: Techniques and Applications			
1							
	<b>†</b>						
Examine Signatur		Soonh Sol	Date Conside	ered 6/21/06			
	- 1	/ III <b>C</b>					

Applicant's unique citation designation number (optional). Applicant is to place a check mark nere it english tanguage i translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, useful or process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, useful or process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, useful or process, and the complete or process. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petert and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED CORNELS of Complete Comp FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.